

**COMBINED DECLARATION FOR AND POWER OF ATTORNEY**

As below named inventor(s) we hereby declare that:

We believe we are the original and first and joint inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled: "Transformed Bacteria Producing CS6 Antigens as Vaccines", the specification of which: Was filed on January 10, 2000 and was assigned U.S. Application Serial No. 09/479,877.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I (We) hereby claim the benefit under 35 U.S.C. 120 of any United States Application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. 112, my (our) acknowledge the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and the filing date of this application:

Serial No. 08/788,145 Filing date: Jan. 24, 1997 Status: Abandoned  
Serial No. 08/243,482 Filing date: May 13, 1994 Status: Abandoned

We hereby appoint the following attorneys and agents, with full power of substitution, association, and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Glenna Hendricks, Reg. No. 32,535 Elizabeth Arwine, Reg. No. 45,867

Address all correspondence and telephone calls to:

Office of Command Judge Advocate,  
HQ. USAMRDC, Department of the Army,  
Fort Detrick  
Frederick, Maryland 21702-5012

Att: Elizabeth Arwine

Telephone: (301) 619-2065

We hereby further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Marcia K. Wolf  
First named inventor

Marcia Kay Wolf  
Inventor's Signature

16 Jun 00  
date

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Third named Inventor

Edgar C. Boedeker

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**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DECEMBER 19, 2000

PTAS

ELIZABETH ARWINE  
U.S. ARMY MEDICAL RESEARCH AND MATERIEL  
COMMAD, ATTN: MCMR-JA  
504 SCOTT STREET, FORT DETRICK  
FREDERICK, MD 21702-5012



\*101498404A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/10/2000

REEL/FRAME: 011175/0069  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

WOLF, MARCIA K.

DOC DATE: 08/02/2000

**ASSIGNOR:**

CASSELS, FREDERICK J.

DOC DATE: 08/01/2000

**ASSIGNOR:**

BOEDEKER, EDGAR C.

DOC DATE: 07/27/2000

**ASSIGNEE:**

ARMY, UNITED STATES  
504 SCOTT STREET FORT DETRICK  
U.S. ARMY MEDICAL RESEARCH AND  
MATERIEL COMMAND  
FREDERICK, MARYLAND 21702-5012

SERIAL NUMBER: 09479877

FILING DATE: 01/10/2000

PATENT NUMBER:

ISSUE DATE:

011175/0069 PAGE 2

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

10-27-2000



101498404

Doc. # No.:

SHEET

Y

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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To the Honorable Commissioner of

and the attached original documents or copy thereof.

1. Name of conveying party(ies):

- (1) **MARCIA K. WOLF**  
(2) **FREDERICK J. CASSELS**  
(3) **EDGAR C. BOEDEKER**

8-10-00

Additional names(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: (1) 2Aug00; (2) 1Aug00; (3) 27Jul00

2. Name and address of receiving party(ies):

Name: **United States Army**

Address: **U.S. Army Medical Research and Materiel**

Command

504 Scott Street

Fort Detrick

City: **Frederick** State/Prov.: **MD**

Country: **U.S.A.** ZIP: **21702-5012**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.

Filing date

B. Patent No.(s)

09/479,877

January 10, 2000

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **ELIZABETH ARWINE**

Registration No. **45,867**

Address: **U.S. Army Medical Research and Materiel**

Command, ATTN: **MCMR-JA**

504 Scott Street, Fort Detrick

City: **Frederick** State/Prov.: **MD**

Country: **U.S.A.** ZIP: **21702-5012**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

- ☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account  
☒ Authorized to be charged to deposit account

8. Deposit account number:

**21-0380**

10/25/2000 DBYRNE 00000191 210380 09479877

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

**ELIZABETH ARWINE, Reg. No. 45,867**

*Elizabeth Arwine*

*7 August 2000*

Name of Person Signing

Signature

**4**

Date

Total number of pages including cover sheet, attachments, and document:

# ASSIGNMENT OF INVENTION

For use of this form, see AR 27-60; the proponent agency is OTJAG

Title of Invention: TRANSFORMED BACTERIA PRODUCING CS6 ANTIGENS AS VACCINES

Inventor(s) Marcia K. Wolf; Frederick J. Cassels; Edgar C. Boedeker

\* Application Serial No.: 09/479,877

\* Date Oath Executed: 1 Jun; 15 Jun & 16 Jun 00 \* Filing Date: January 10, 2000

(\*Data not known at execution may be added for better identification.)

I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor:

Marcia  
(First name)

K  
(Middle Initial)

Wolf  
(Last name)

Duty Address: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

(Locality)

(County)

(State)

Date:

2 Aug 2000

Typed Name of Inventor:

MARCIA K. WOLF

\*\*\*\*\*

State of: District of Columbia

) SS

County of:

//

)

On the above date MARCIA K. WOLF known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed.

(SEAL)

Janelle M. Forde  
(Signature of notary public)

JANELLE M. FORDE  
NOTARY PUBLIC DISTRICT OF COLUMBIA  
My Commission Expires May 14, 2004

My Commission expires

# SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-60; the proponent agency is OTJAG

Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.

1. ASSIGNOR(s) OR LICENSOR(s) NAME(s)  
Marcia K. Wolf; Frederick J. Cassels; Edgar C. Boedeker

2. APPLICATION SERIAL NUMBER  
09/479,877

3. FILING DATE  
January 10, 2000

4. TITLE OF INVENTION

TRANSFORMED BACTERIA PRODUCING CS6 ANTIGENS AS VACCINES

SIGNATURE OF INVENTOR:

Frederick  
(First name)

J.  
(Middle initial)

Cassels  
(Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: 08-01-2000

INVENTOR'S TYPED NAME: FREDERICK J. CASSELS

\*\*\*\*\*

STATE OF

Maryland

COUNTY OF

Montgomery ) SS.

On the above date  
executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own  
free act and deed.

FREDERICK J. CASSELS

known to me to be the individual described in and who

(SEAL)

[Signature]  
(Signature of notary public)

My Commission expires on

Oct 23rd 2002

SIGNATURE OF INVENTOR:

Edgar  
(First name)

Charles  
(Middle initial)

Boedeker  
(Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED:

7/27/00

INVENTOR'S TYPED NAME: EDGAR C. BOEDEKER

\*\*\*\*\*

STATE OF

Maryland

COUNTY OF

Baltimore ) SS.

On the above date  
executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own  
free act and deed.

EDGAR C. BOEDEKER

known to me to be the individual described in and who

(SEAL)

[Signature]  
(Signature of notary public)

My Commission expires on

June 1, 2004